Lenovo L215p Wide
Flat Panel Monitor Webcam User’s Guide

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Declaration

Welcome for using Lenovo’s product.

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Chapter 1. Introduction

1-1 System Requirement

* Pentium 4 1.8Gor above CPU
* 512M or above memory
* USB2.0 Interface (Compatible with USB1.1)
* Windows XP SP1 above or Windows VISTA
* If required for sound effect please equip the sound card
* If required for video conference or telephone, please equip MODEM or network card

1-2 Features and Application

* CMOS sensor chipset, 0.3 mega pixel, software can interpolation to 2 mega pixel.
* Auto white balance
* Maximum resolution capture per image is 1920*1080 (Full HD)
* Analogue microphone
* 30 frame/second, providing real-time image
* Provides motion AVI image capturing
* Size of image windows can be adjusted. Providing full screen and real-time image
* Auto detect the lighting of environment.

Chapter 2. Installation instruction

Please confirm that your operation system is upgraded or change to Windows XP SP1 or Windows VISTA. Please also uninstall other webcam software. If the other software has caused the equipment, Lenovo does not hold any responsibility.

Lenovo L215P Webcam software support Windows XP SP1 above or Windows VISTA English version.

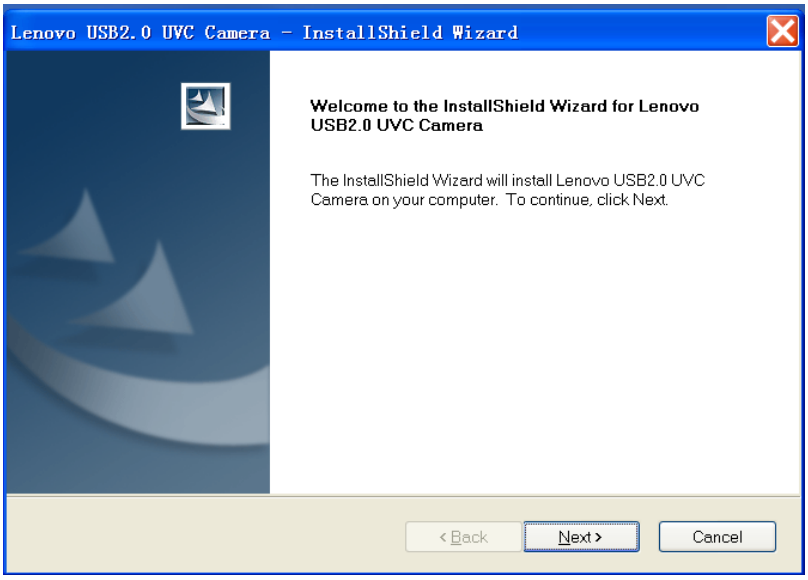
2-1 Driver Installation

Lenovo L215P Webcam software support Windows XP SP1 above or Windows VISTA English version.

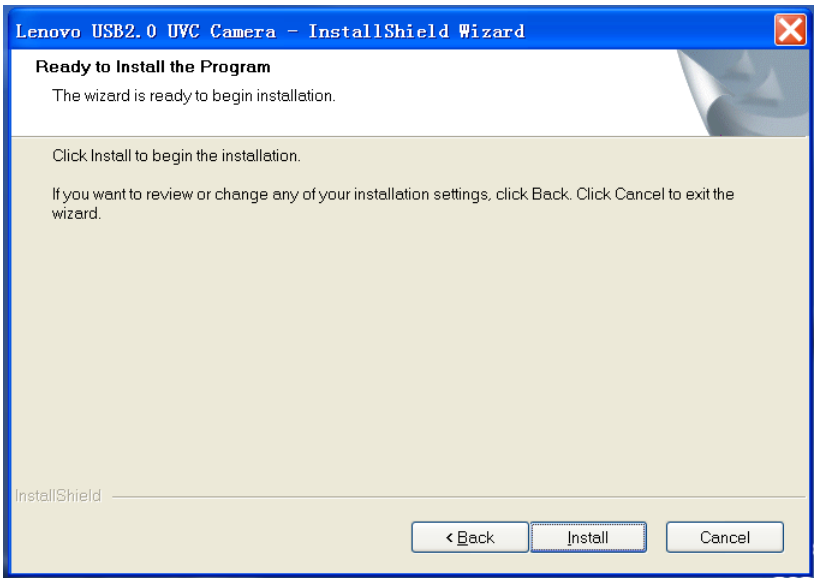
1) Place the product disc into disc player. A guiding window will pop up. After choosing the desired installation language, click “OK”. Windows will start Lenovo camera driver.

2) If the installation window does not pop up after the disc is insert, please execute X:\setup.exe, manually. (X is disc drive symbol)

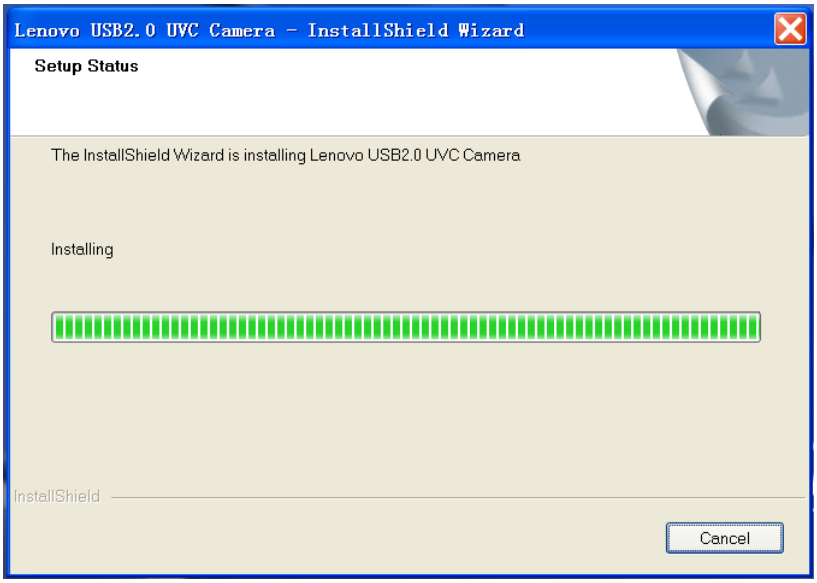
3) Click “Next”, start the installation.

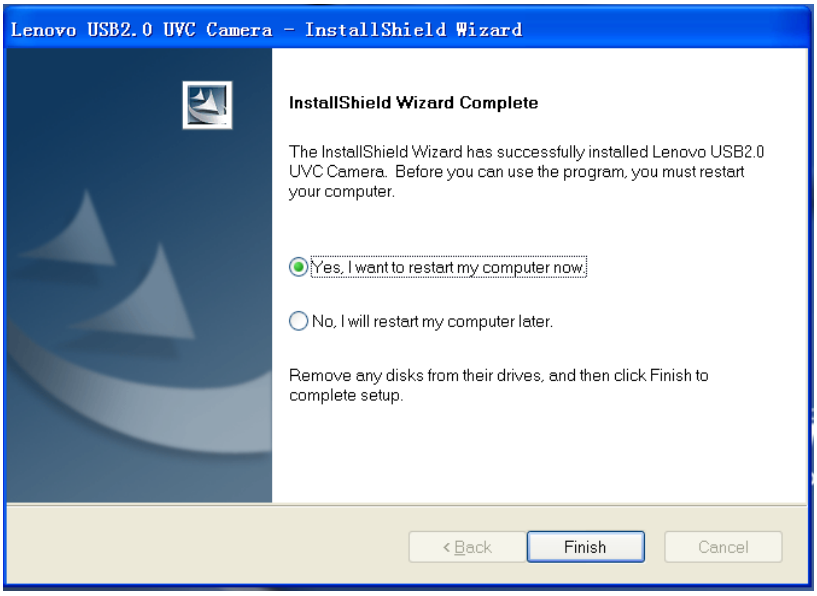

Lenovo USB2.0 UVC Camera - InstallShield Wizard
Welcome to the InstallShield Wizard for Lenovo USB2.0 UVC Camera
The InstallShield Wizard will install Lenovo USB2.0 UVC Camera on your computer. To continue, click Next.
< Back
Next >
Cancel

4) Click “Install”, installation software will start copying the file.

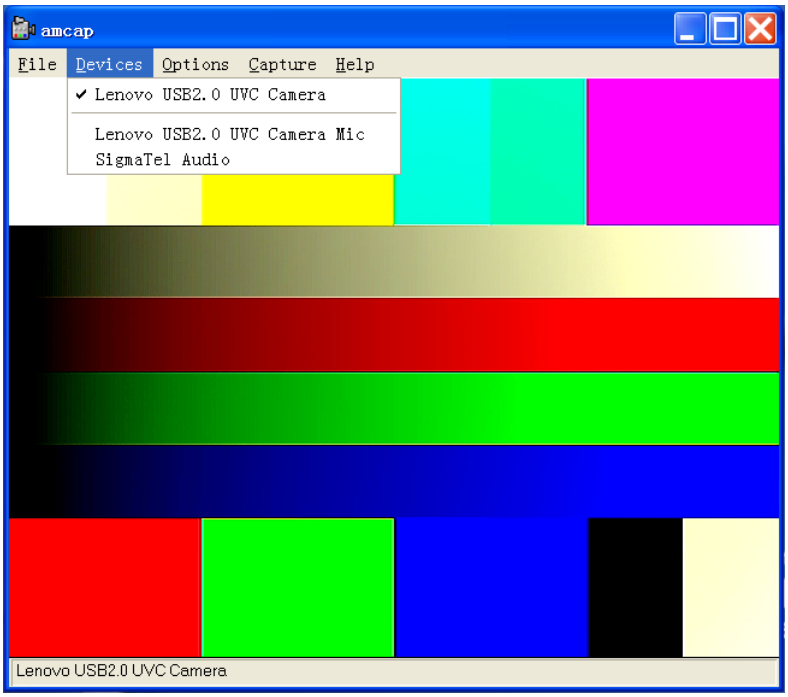

Lenovo USB2.0 UVC Camera - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

5) When the installation is completed, the following window will pop up. Click “Complete”, it will generate vmcap shortcut on desktop. The shortcut can execute the camera module. In order to function completely, it is recommend to restart after the installation of driver.




Lenovo USB2.0 UVC Camera - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Lenovo USB2.0 UVC Camera. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

As the figure indicated, vmcap can execute the image browsing and configuration.



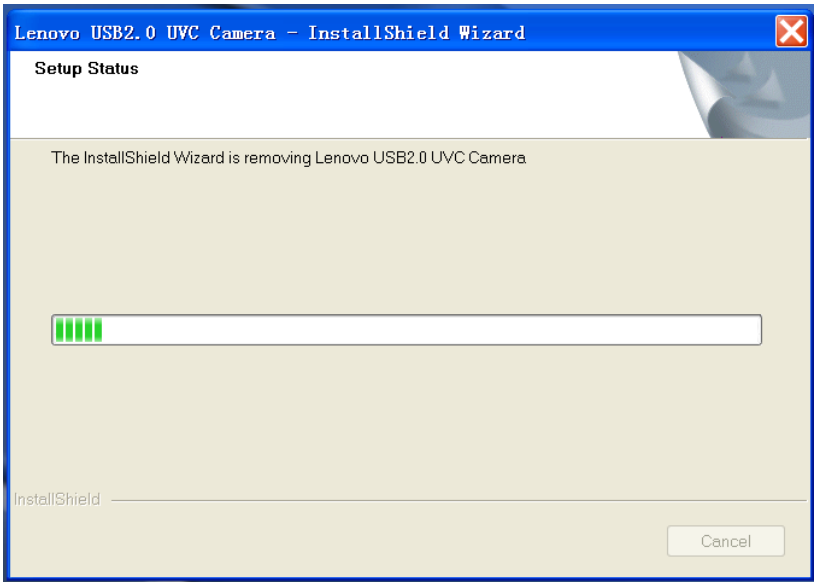
2-2 Driver uninstallation

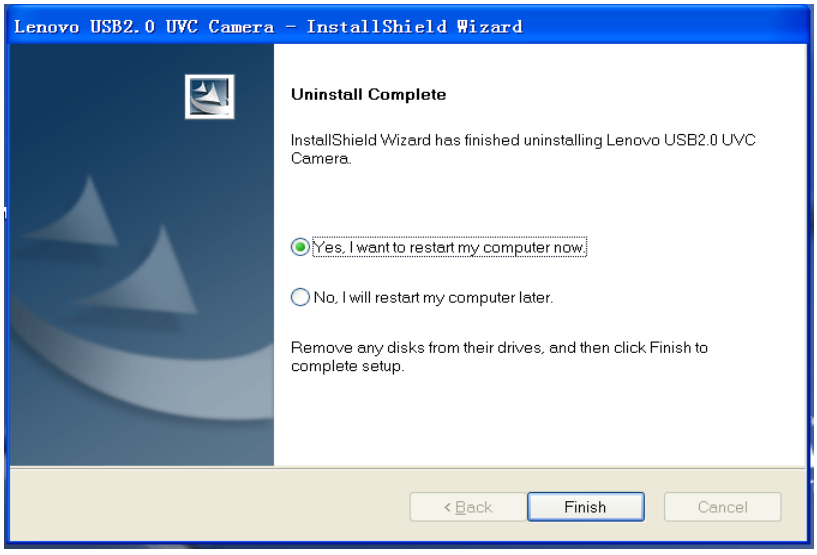
1)Click “Start” -> “Program” -> Lenovo USB2.0 UVC Camera -> Uninstall Lenovo USB2.0 Camera.

Pop up the following window：

Lenovo USB2.0 UVC Camera - InstallShield Wizard
Do you want to completely remove the selected application and all of its features?
Yes
No

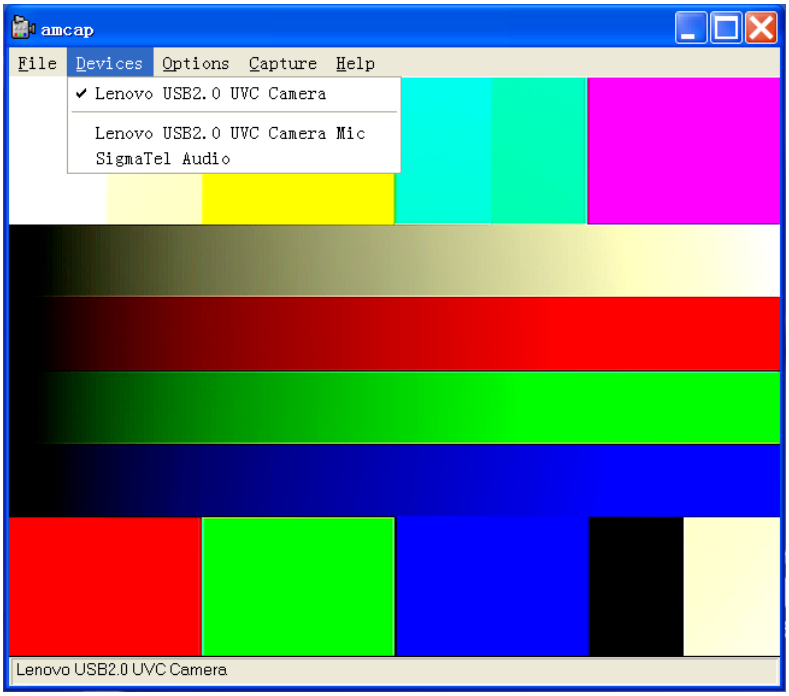
2) Click “Yes” to proceed with uninstallation. In order to remove driver completely, it is recommended to restart after uninstalling the driver.


Lenovo USB2.0 UVC Camera - InstallShield Wizard
Setup Status
The InstallShield Wizard is removing Lenovo USB2.0 UVC Camera
InstallShield
Cancel

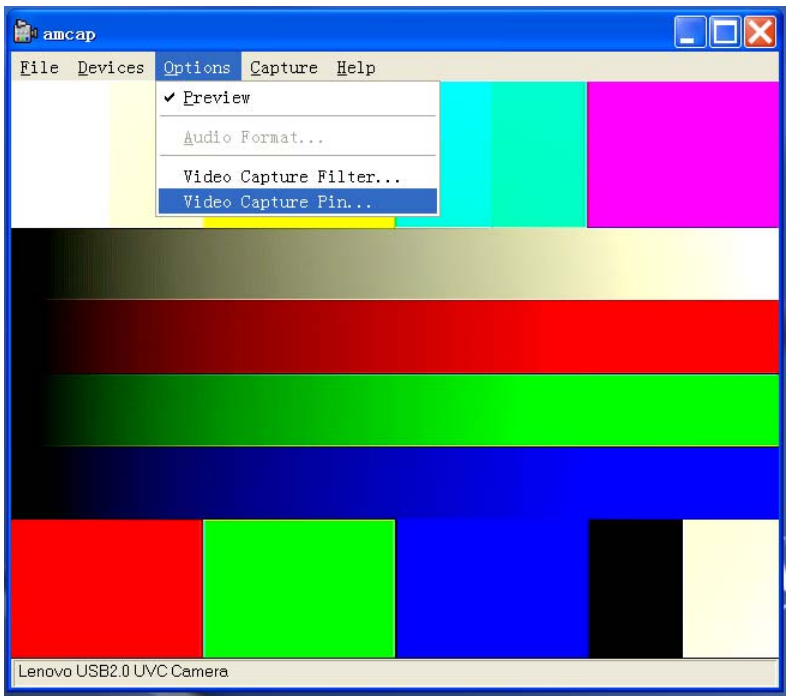

Lenovo USB2.0 UVC Camera - InstallShield Wizard
Uninstall Complete
InstallShield Wizard has finished uninstalling Lenovo USB2.0 UVC Camera.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

Chapter 3. Application software guide

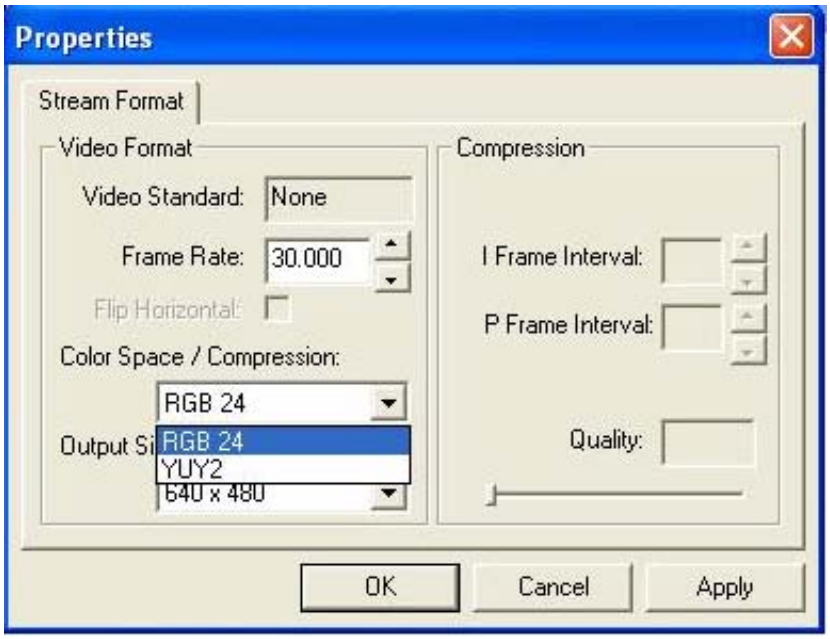
Execute vmcap to proceed on image browsing and configuration shown as below:



If do not wish to see screen in different resolution, click “vmcap” -> “VideoCapturePin” to proceed on image format and dimension configuration. Shown as below;



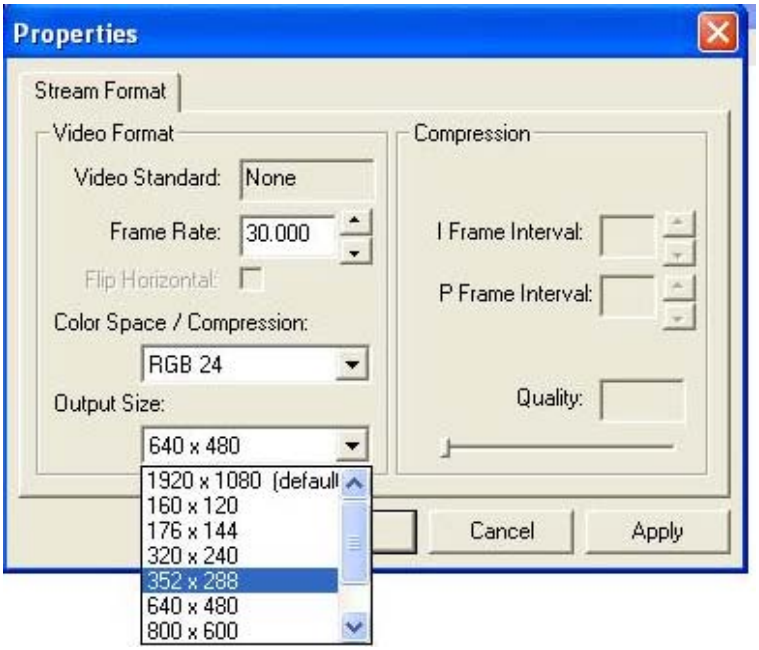
At this time, there will be multiple options. Vertical interval reference (VIR) is for current video vertical interval reference (VIR) and is known as FPS. Option of color space and compression is for current video output format. It supports both RGB24 no-loss format and YUY2 format which occupy less CPU resource. It can be chose as desired. Shown as below:



The format sizes below represent the support of current video format and vertical interval reference. The supporting format is shown as below:

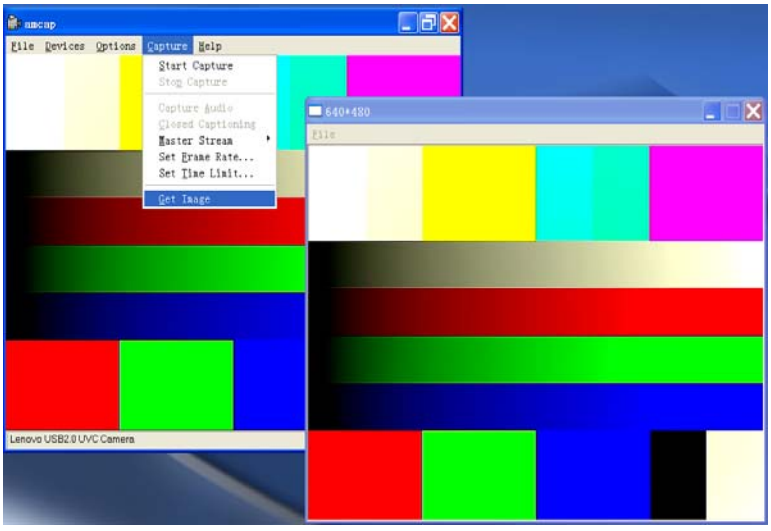
Output Size	fps
160*120	30/15/7
176*144	30/15/7
320*240	30/15/7
352*288	30/15/7
640*480	30/15/7
800*600	30/15/7
1024*768	30/15/7
1280*1024	15/5
1920*1080	15/5

After select resolution, click “OK”, this can change the resolution of the video.

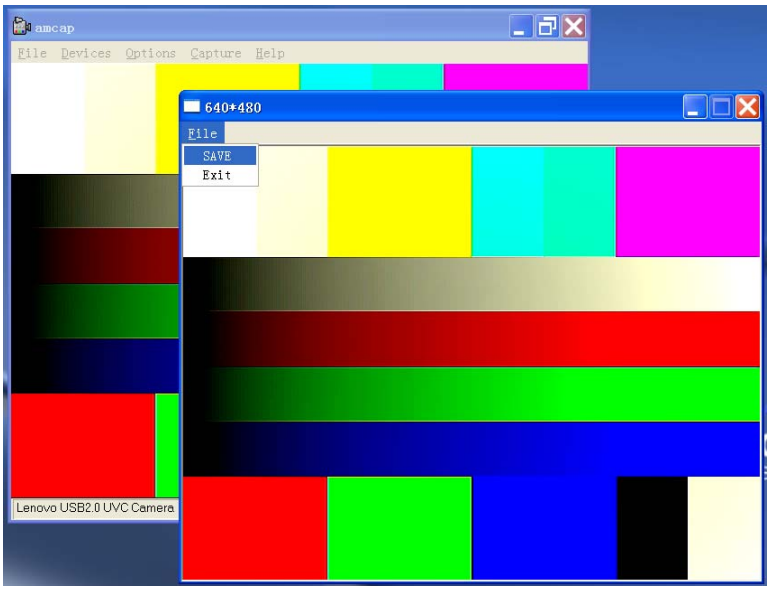


[Capture Image]

At “vmcap” -> “Capture” -> click “Get Image”. This can capture the current image. It is shown as below.

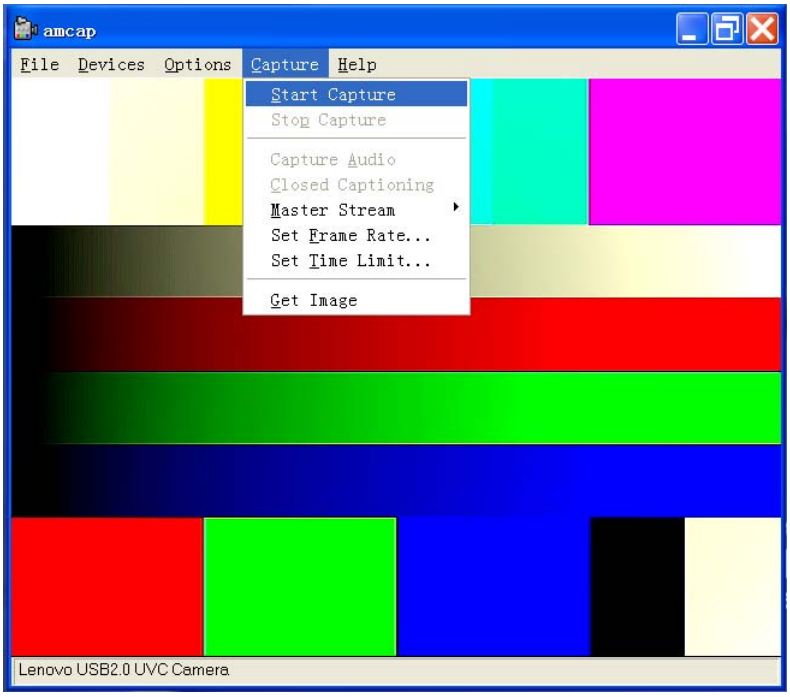


Click ”file” -> “save” -> at the captured image can save the photo

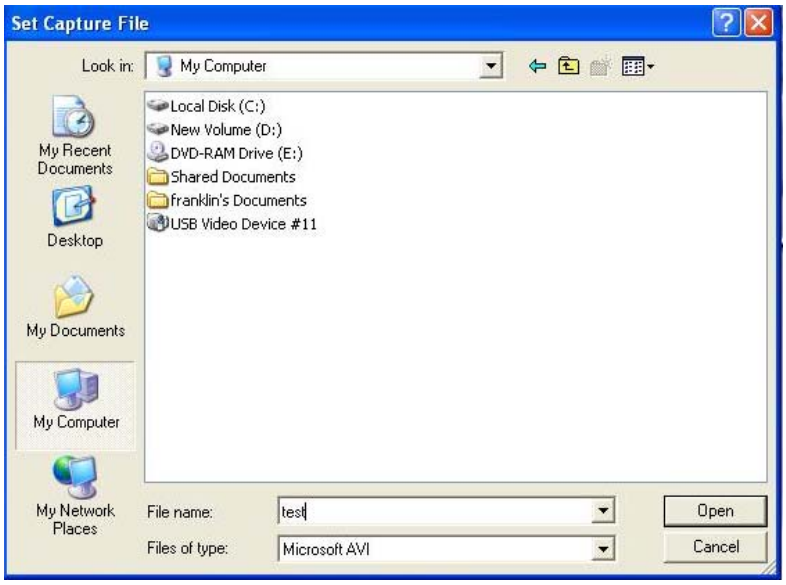


[Recording]

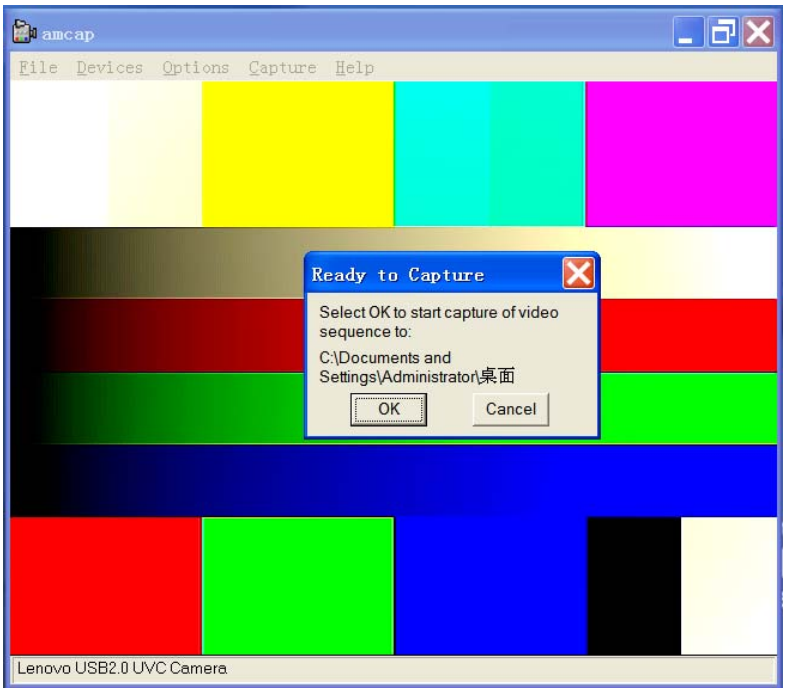
At”vmcap”-> “Capture”->”Start Capture” This can record the current video. It is shown as below:



It will pop up the below window, select the desire address and name for the recorded video. It is shown as the image, select desktop as route and name the file.

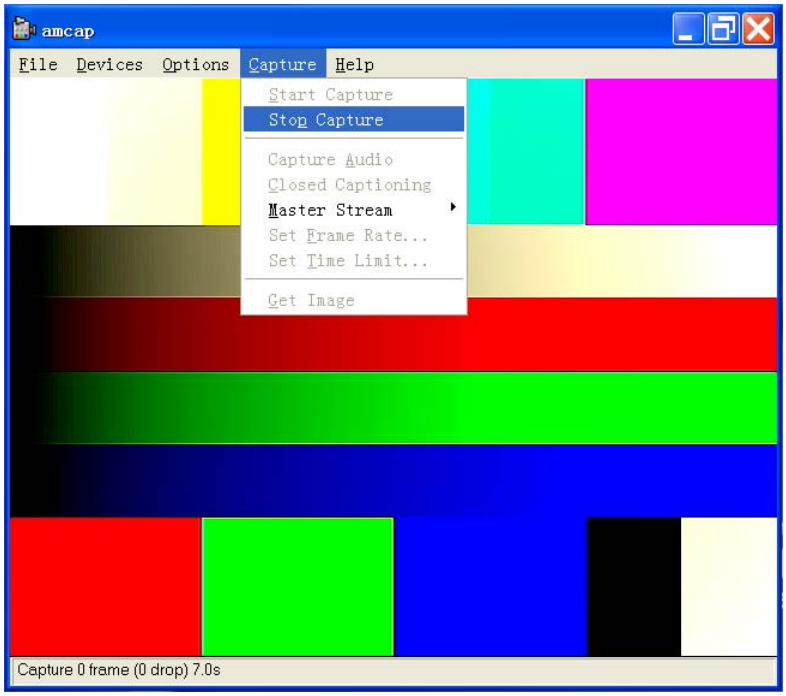


Click “Save”. It will pop up a confirmation window, including the file route. It is shown as below:



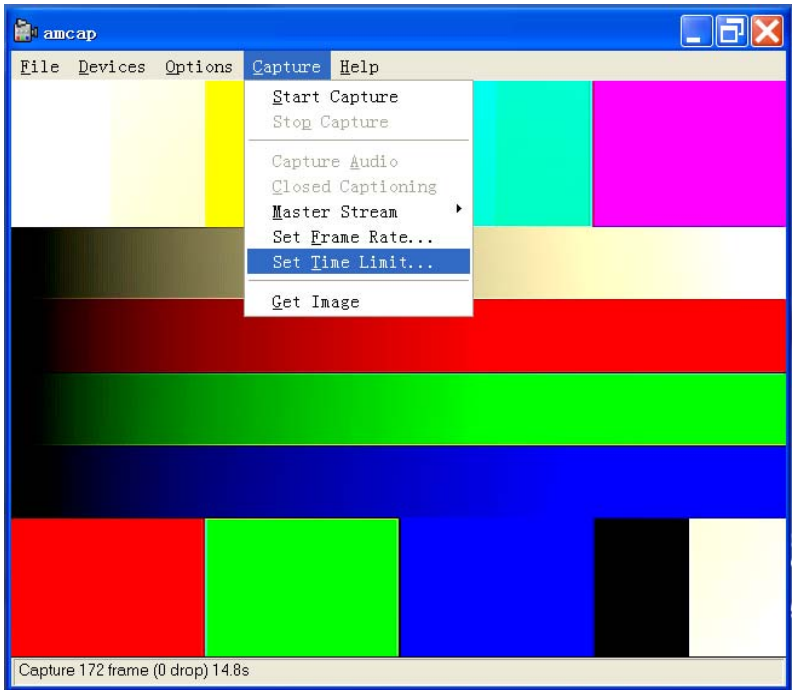
Click “OK”. The recording will start.

Click “vmcap” -> “Capture” -> “Stop Capture” to stop recording.



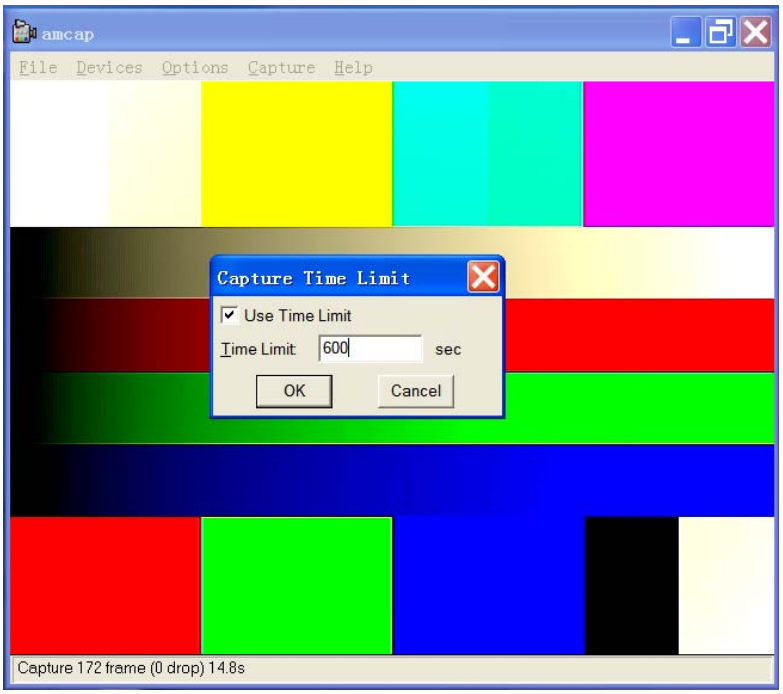
[Setting For Recording Time Limit]

Click “vmcap” -> “Capture” -> “Set Time limit”. This can set up recording time limit.



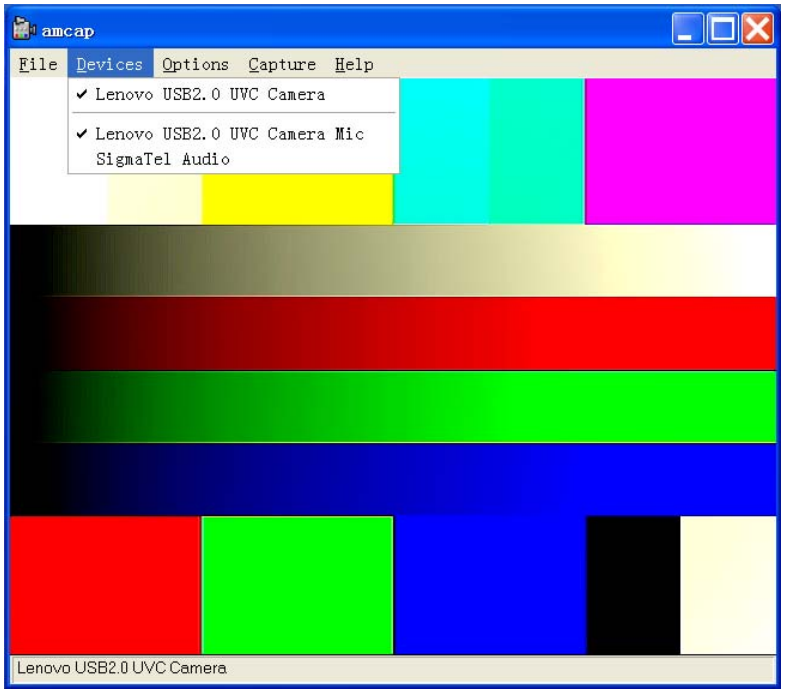
After the window pop up, check and input the desire recording time. Unit is by second.

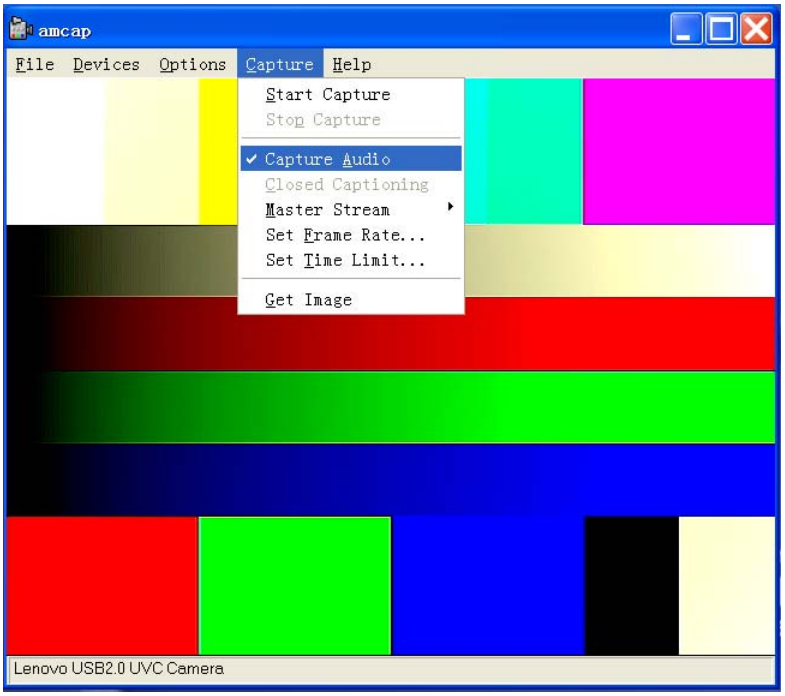
The counting will be started until the preset time stop.



[Voice Recording Function]

Click “vmcap” -> “Device” -> below the audio hardware “Lenovo USB2.0 UVC Camera Mic. This can turn on the voice function of the camera. If recording is needed, click “vmcap” -> “Capture” -> “Capture Audio”





Chapter 4. Q & A

Q: What should I do when the image has banding and flicker?

A: This can be adjusted from the option in “Options” -> “Video Capture”. The switching of 50Hz/60Hz can be found here. The issue should be solved from the option here. If the outdoor nature light is strong and the lighting indoor has caused the banding, turn off the indoor lighting or lower the outdoor lighting (close the curtain) can solve the banding issue.

Q: Why is my recording stopped after a certain period of time?

A: When the space in the disc is full, the recording will stop. If the recording time limit is set, the recording will stop at the time limit. If it is caused by time limit, it can be turned off or changed at “Capture”-> “Set Time Limit”.

Q: What should I do when the image become too dark or abnormal?

A: Use hand to cover the lens. Release after a while to let the camera return to normal after auto adjusting. The parameter such as image brightness, contrast can be adjusted at “Option” Video Capture Filter” at your desire”

Q: After installing Lenovo Webcam module, why is there a message of “There is no available video device!” has pop up?

A: If other video devices has been installed before installing Lenovo Webcam, the error of “There is no available video device!”might appear. If the error occurred, please follow the steps below:

Please check if the hardware driver in device manager is “Lenovo USB2.0 UVC Camera”. If it is not, please follow the driver installation guide in the manual for installation.

Do not use USB extension cord if it is not necessary. Lenovo do not hold any responsibility if the error or malfunctioning caused by the USB extension cord.

Uninstalling the webcam:

1. Application software:
   “Start” -> “Program” -> “Lenovo camera”-> unistalling Lenovo Webcam device application software” to start uninstalltion.
2. Driver:
   “Control Panel”-> “Add/Uninstalling a program. Click “uninstall” on “Lenovo USB2.0 UVC Camera” to start the uninstalling process.

   Max. recording resolution is up to 640*480, but the preview and image capture can support 1920*1080.